

Figure 1

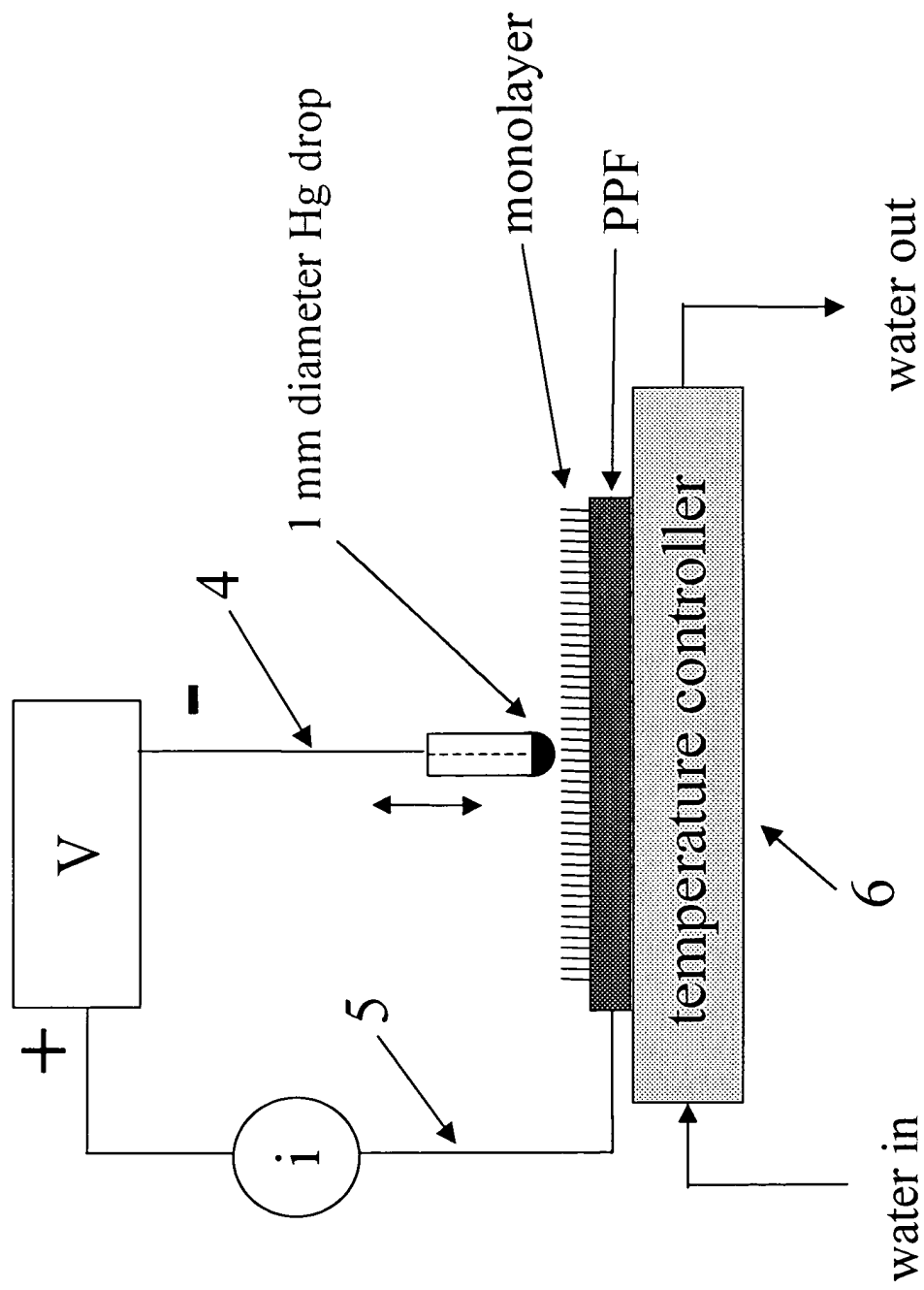


Figure 1A

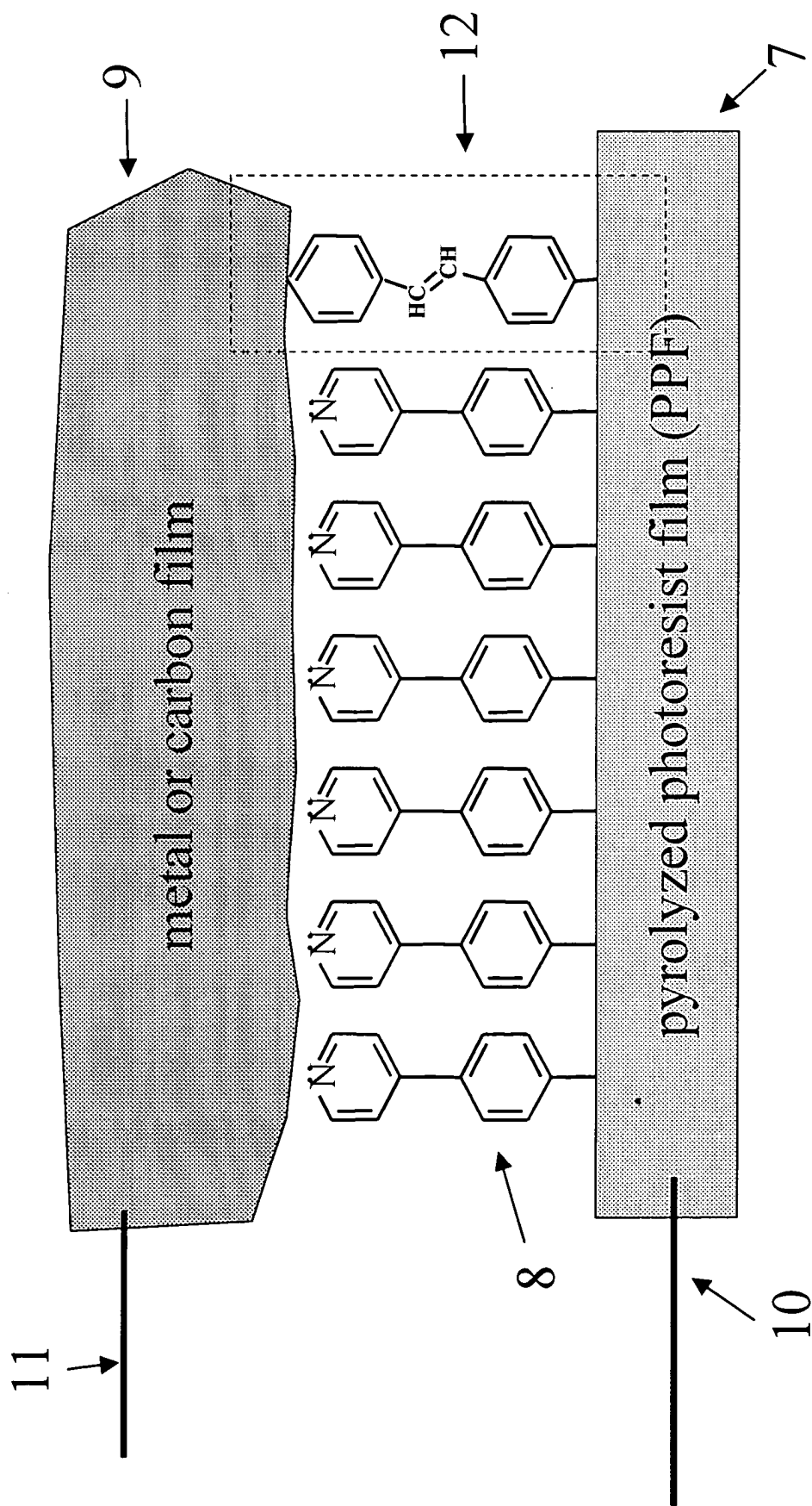


Figure 2

Schematic molecular orbitals of individual components of molecular junction

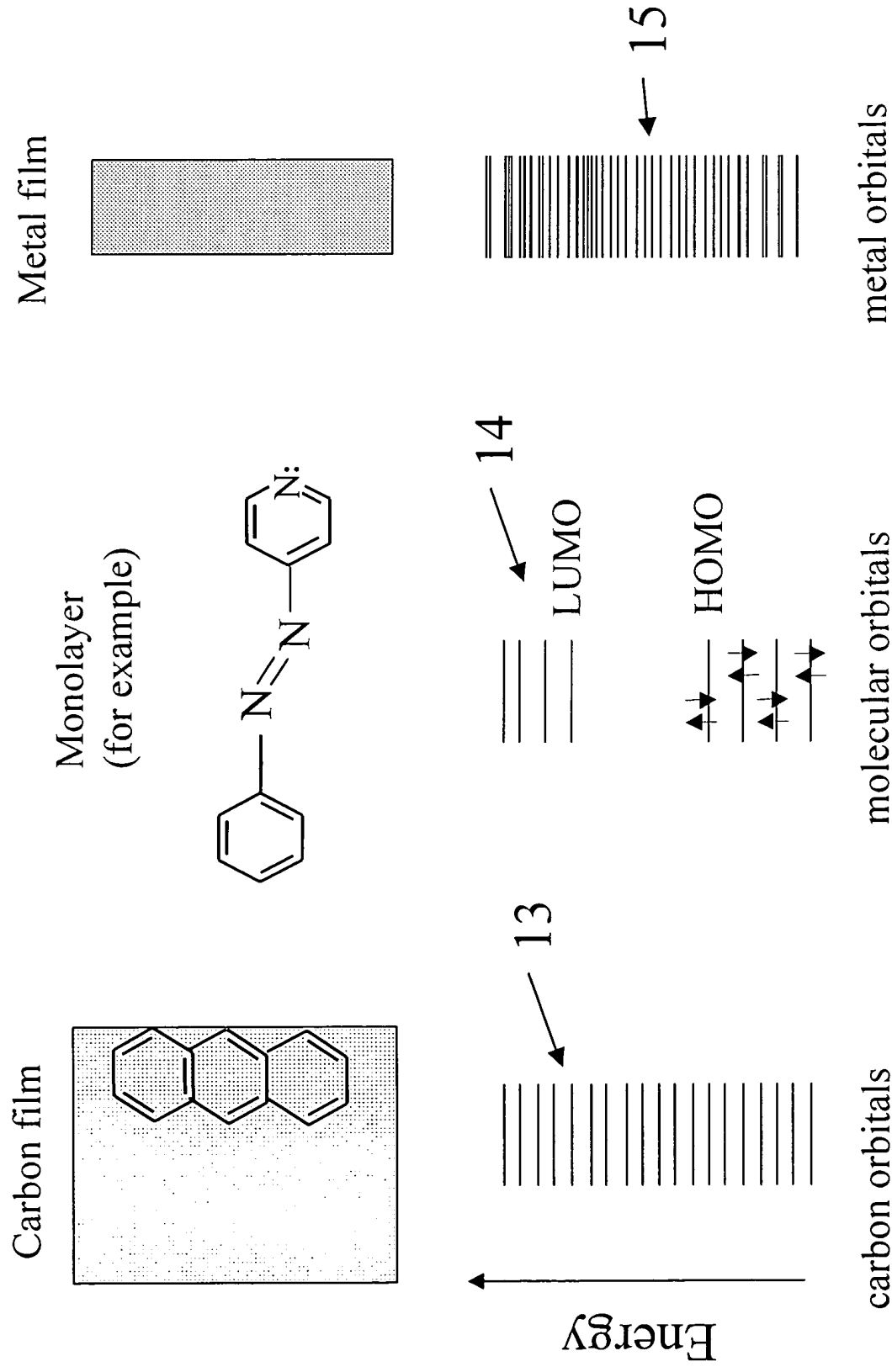


Figure 3

Chemically bonded organic monolayer on PPF:

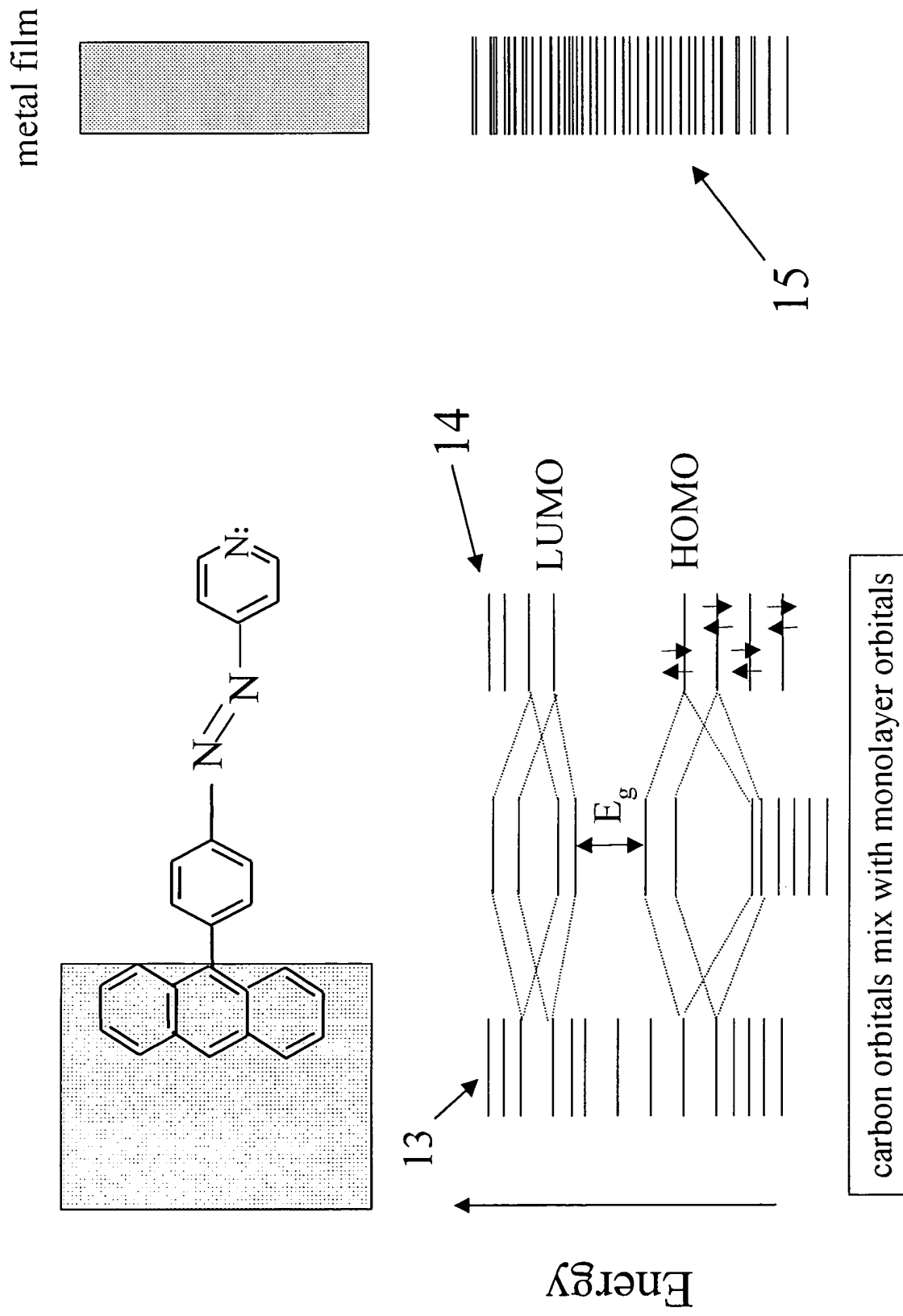


Figure 4

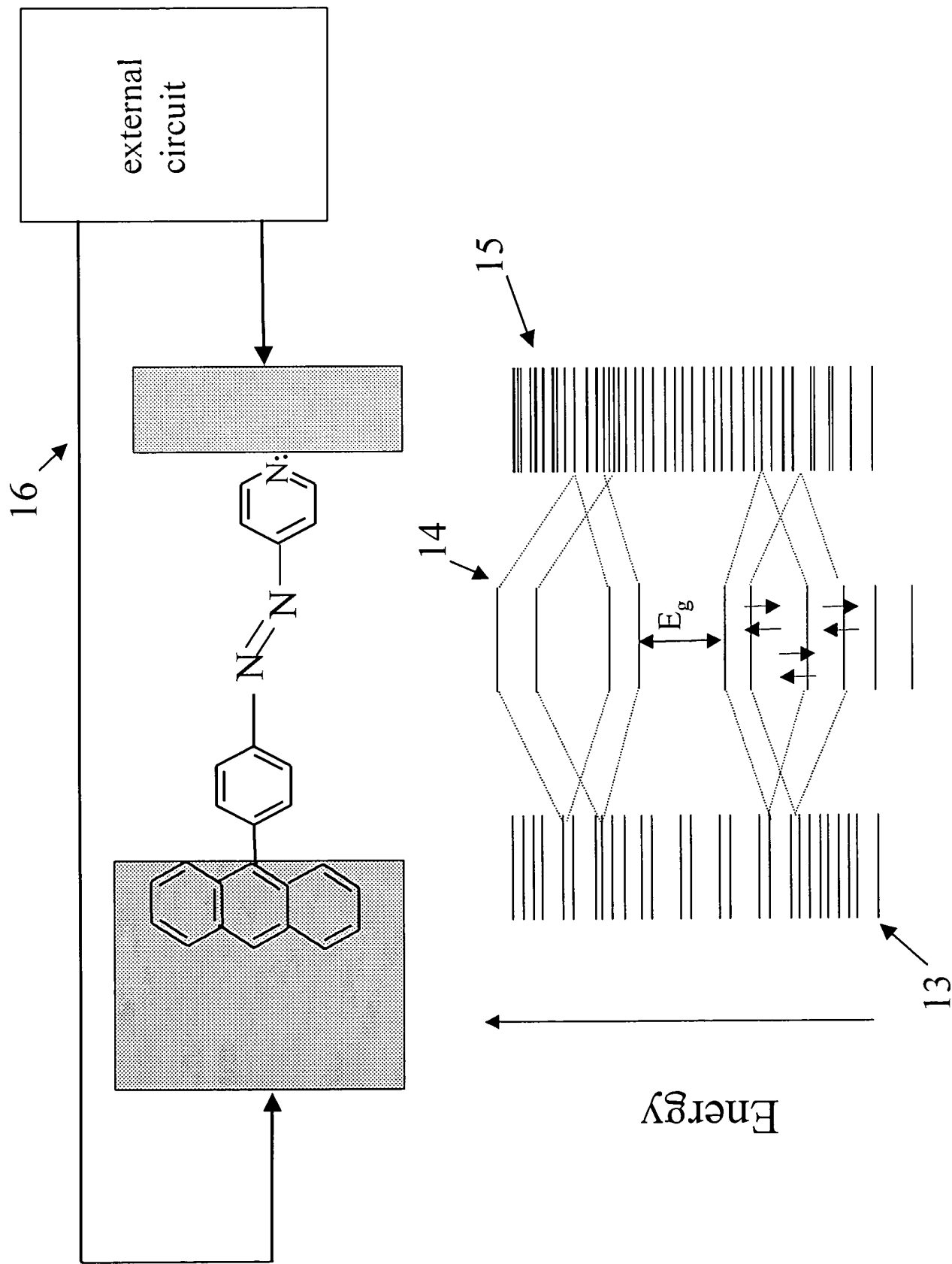


Figure 5

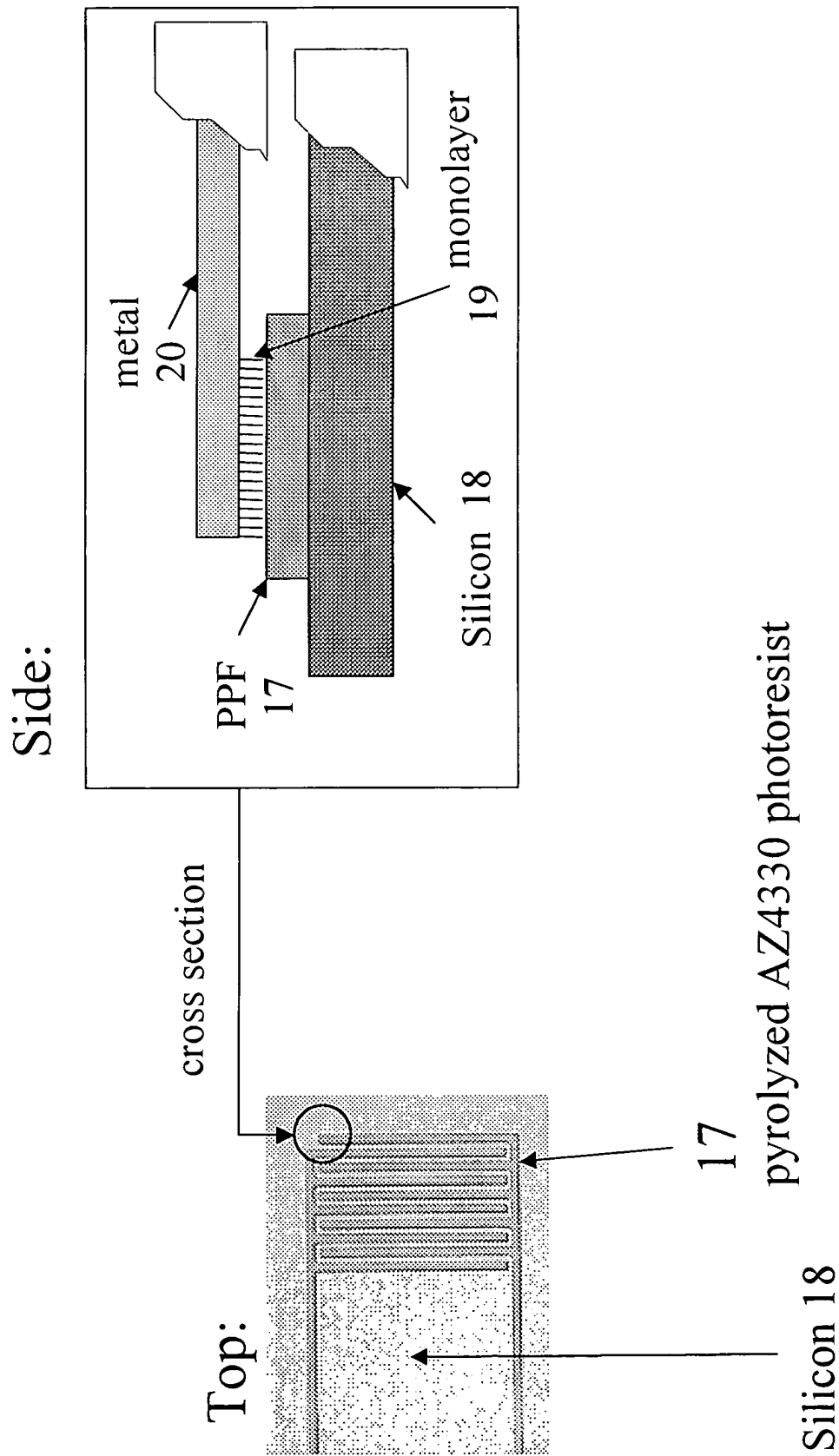
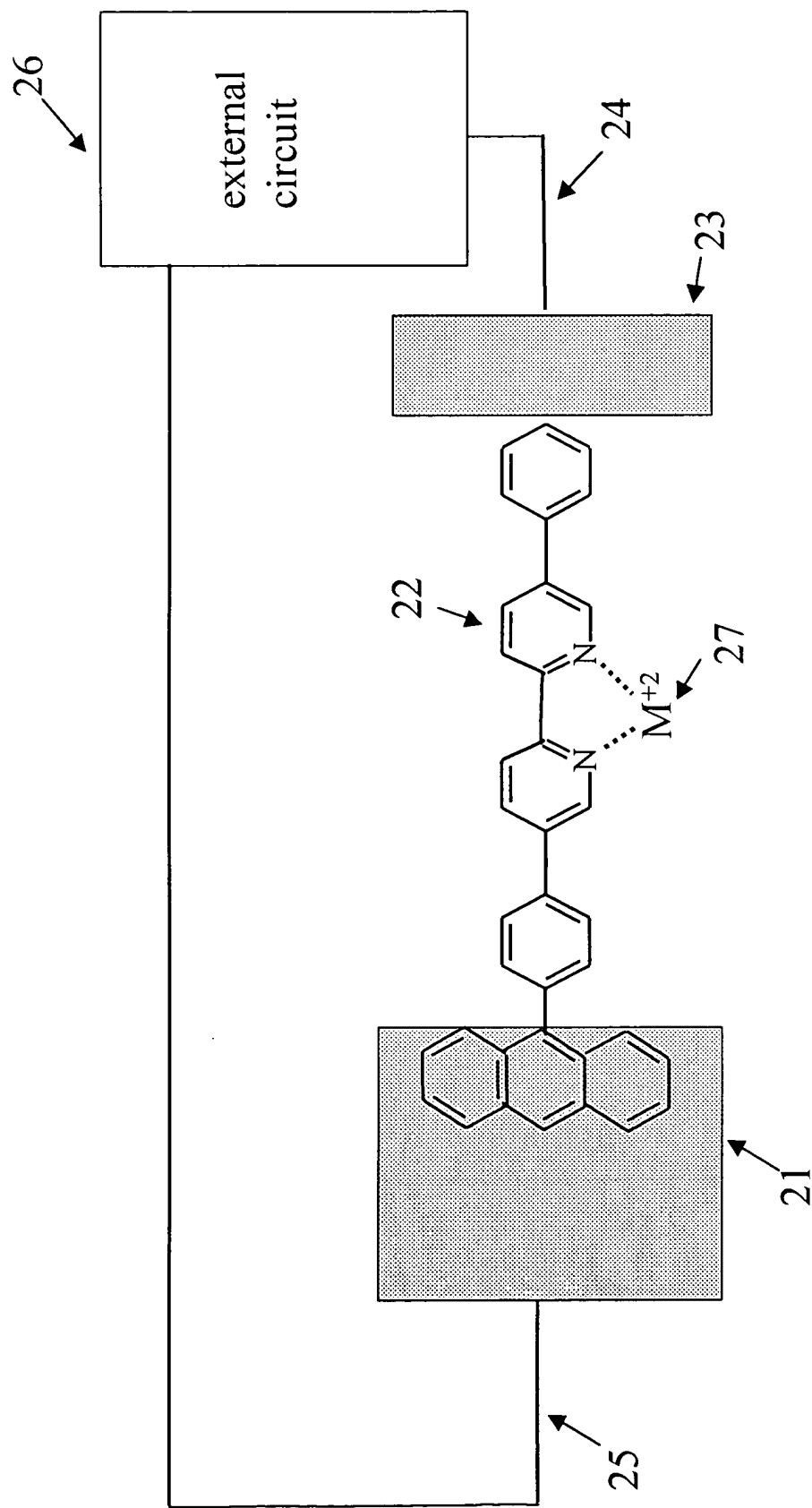


Figure 6



Presence of metal ion changes conductivity between carbon and metal films. Chemically sensitive component becomes part of the circuit.

Figure 7

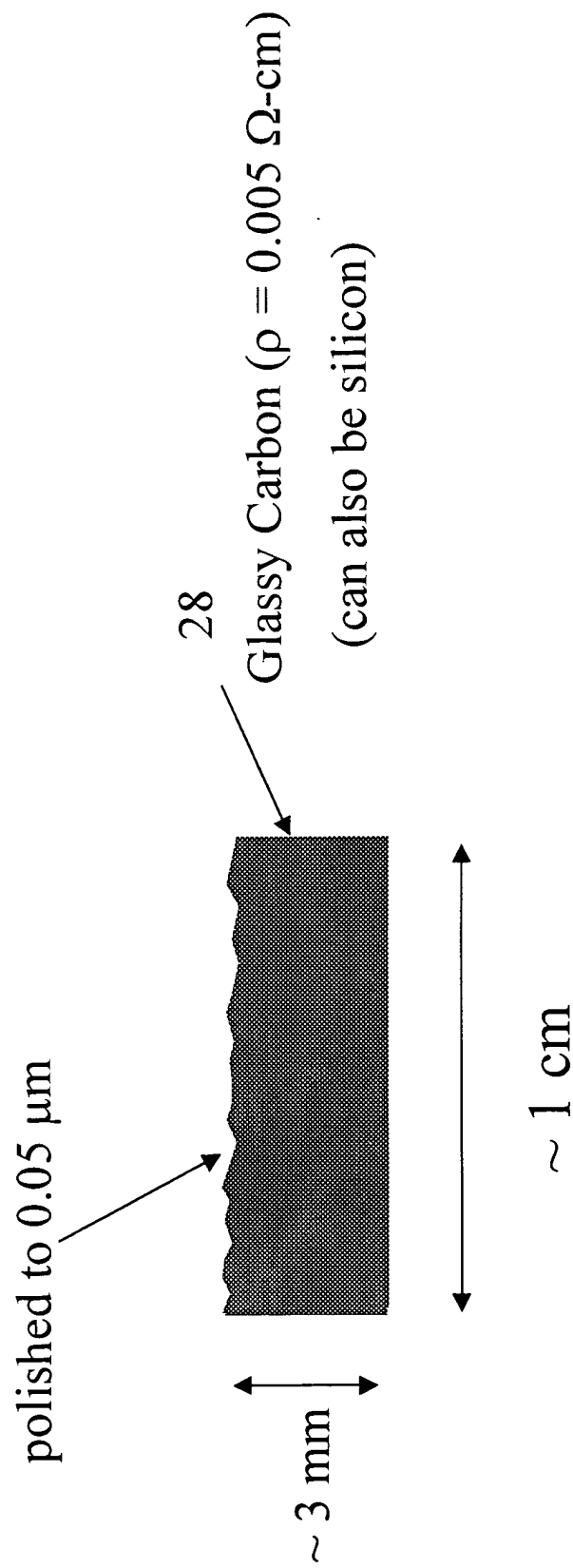


Figure 8

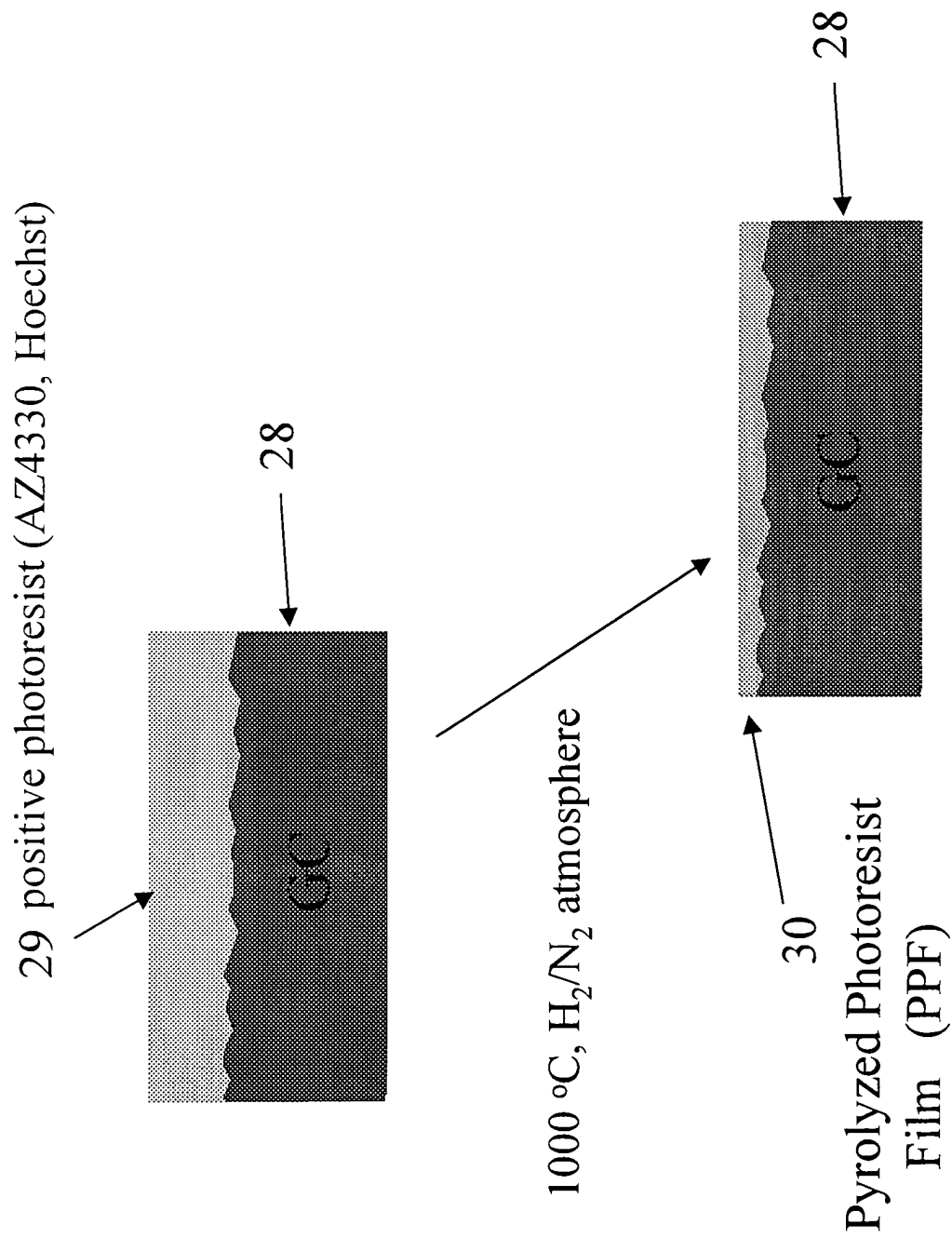


Figure 9

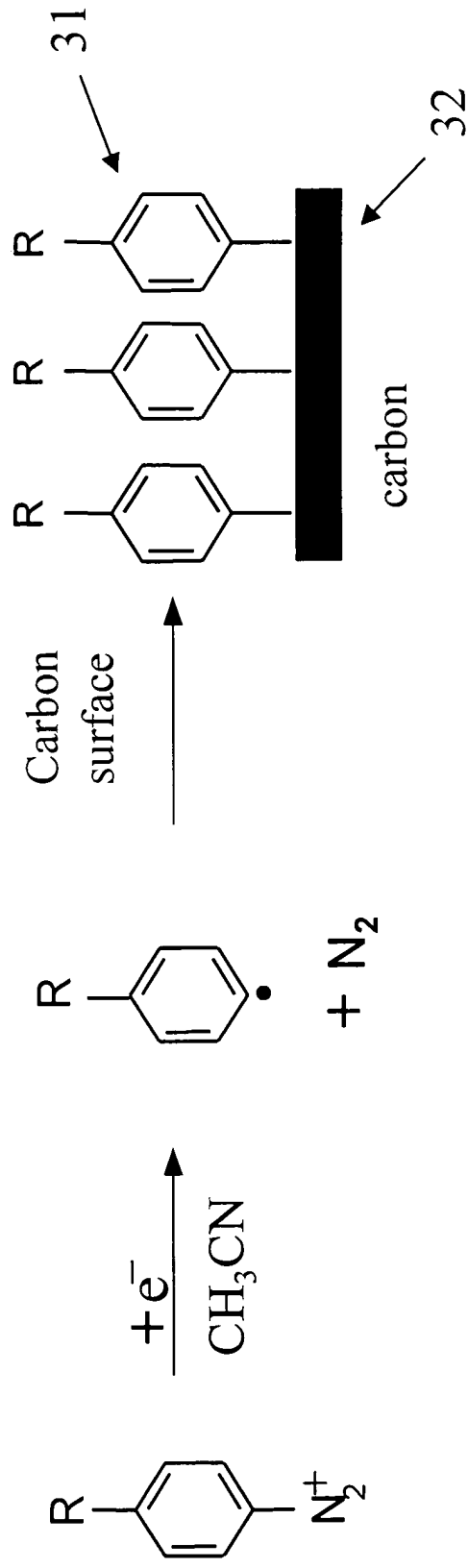


Figure 10

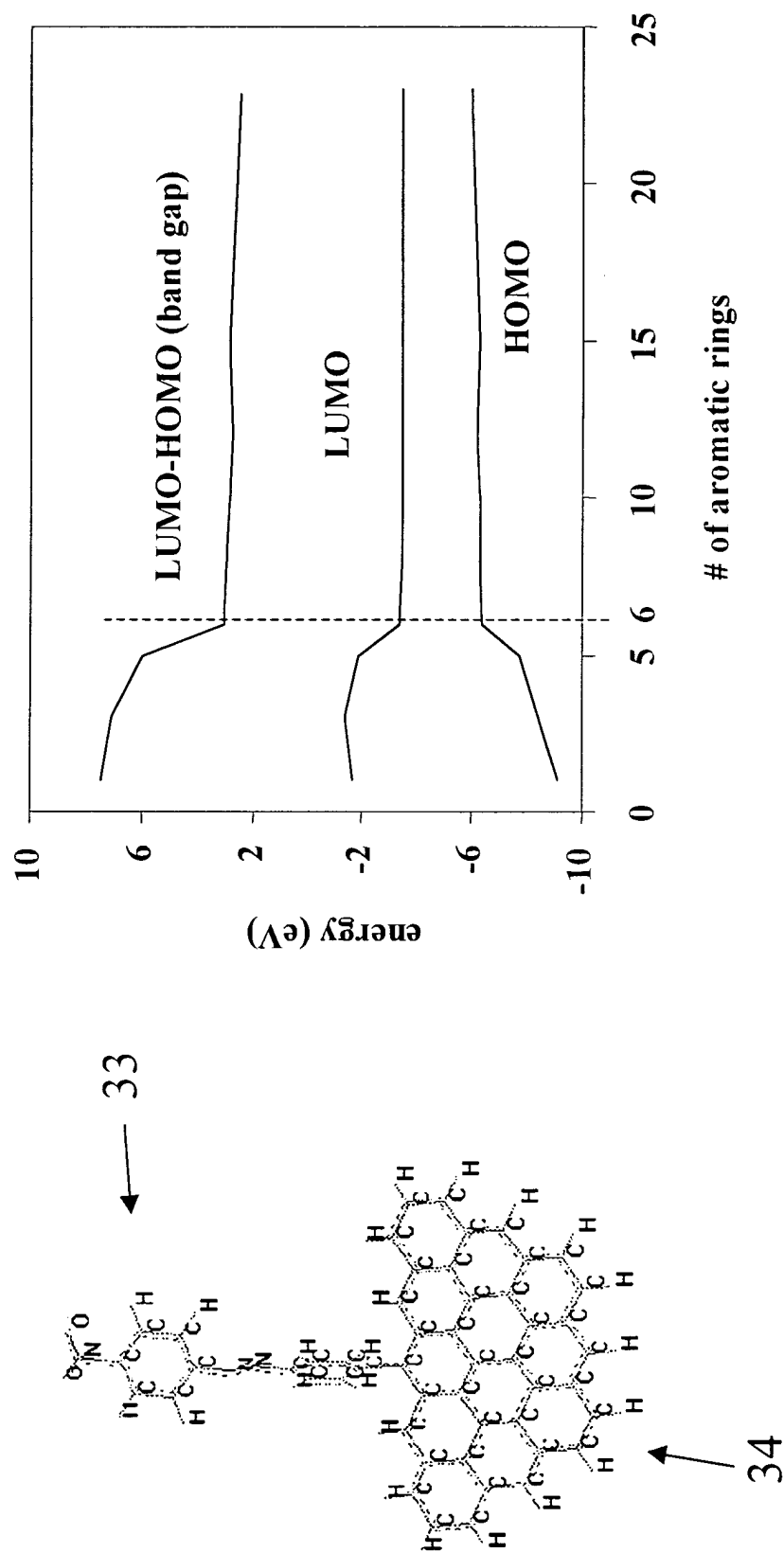


Figure 11

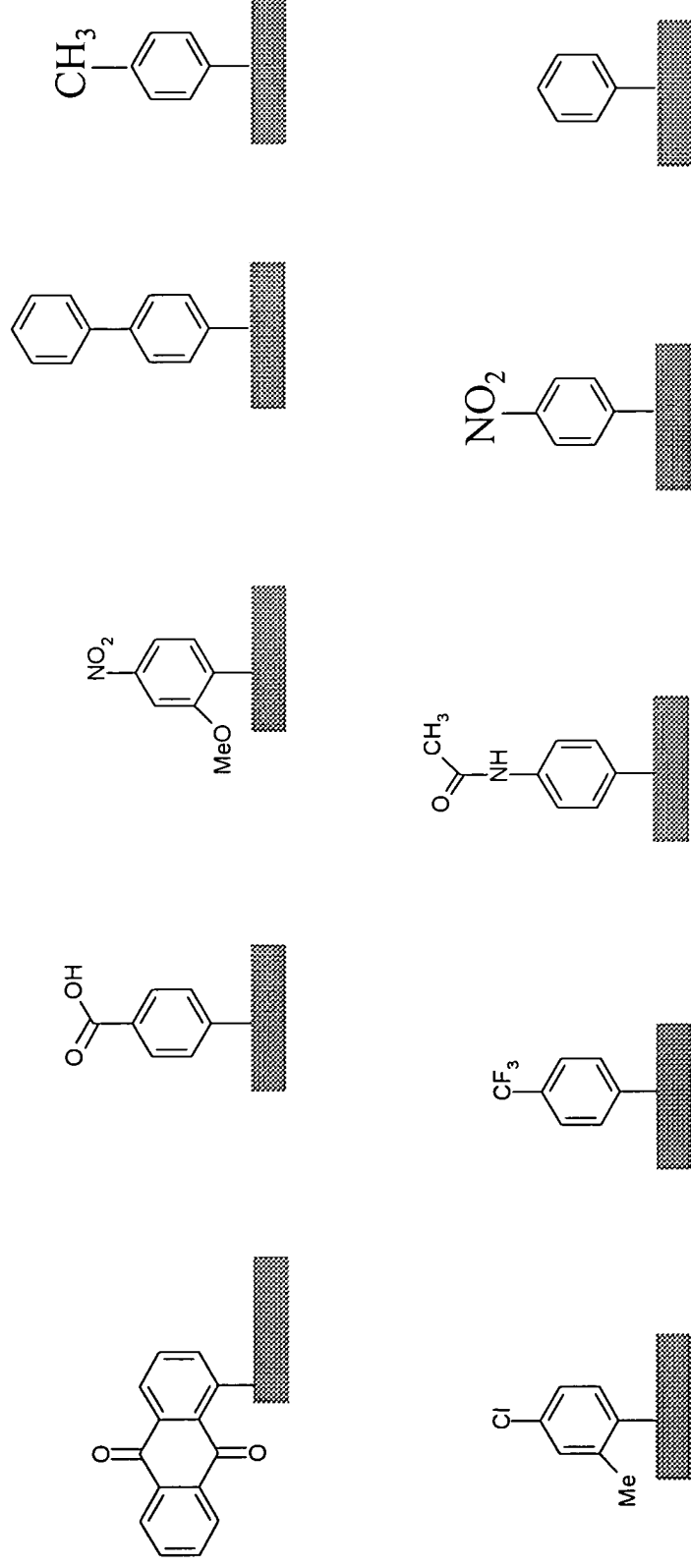


Figure 12

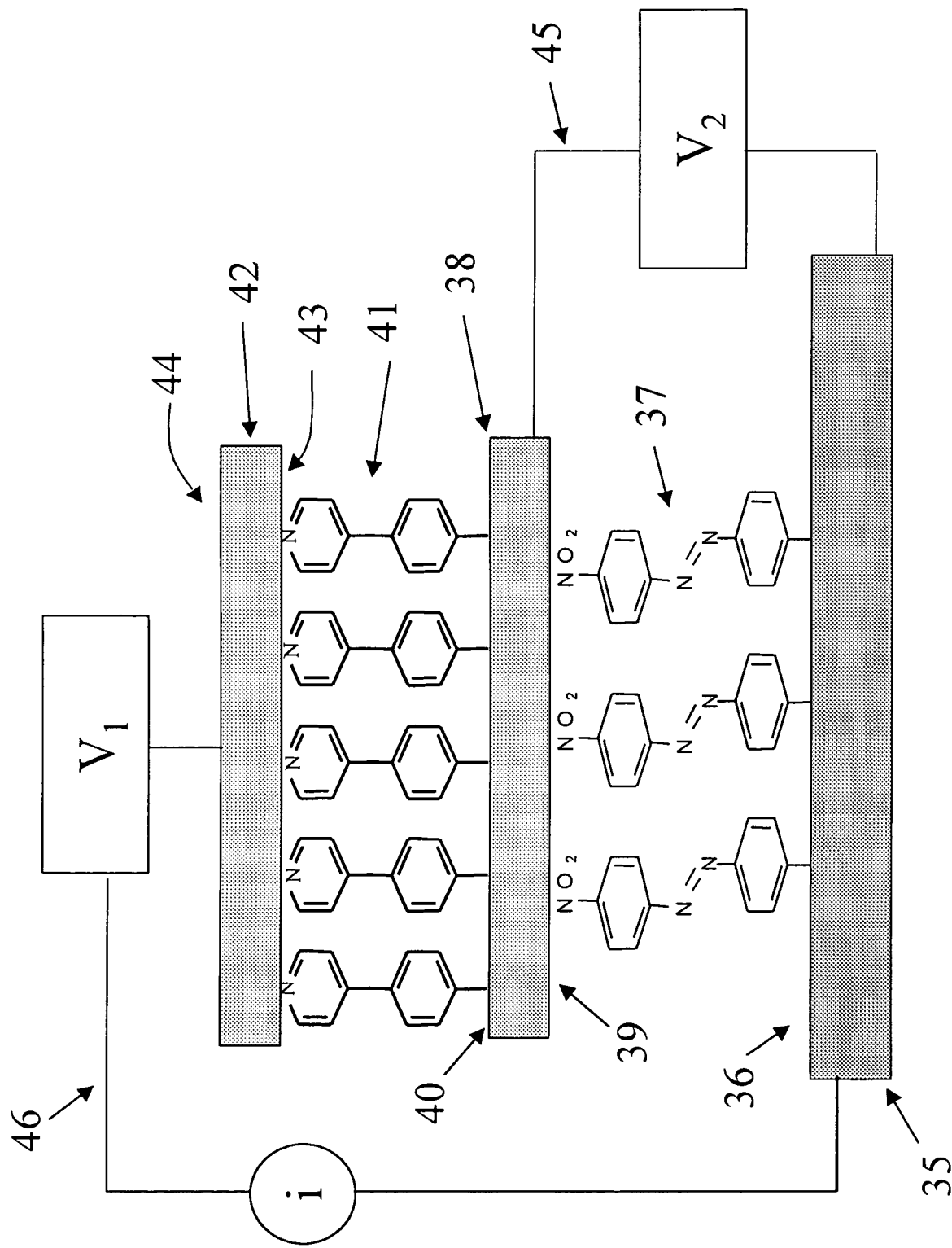


Figure 13

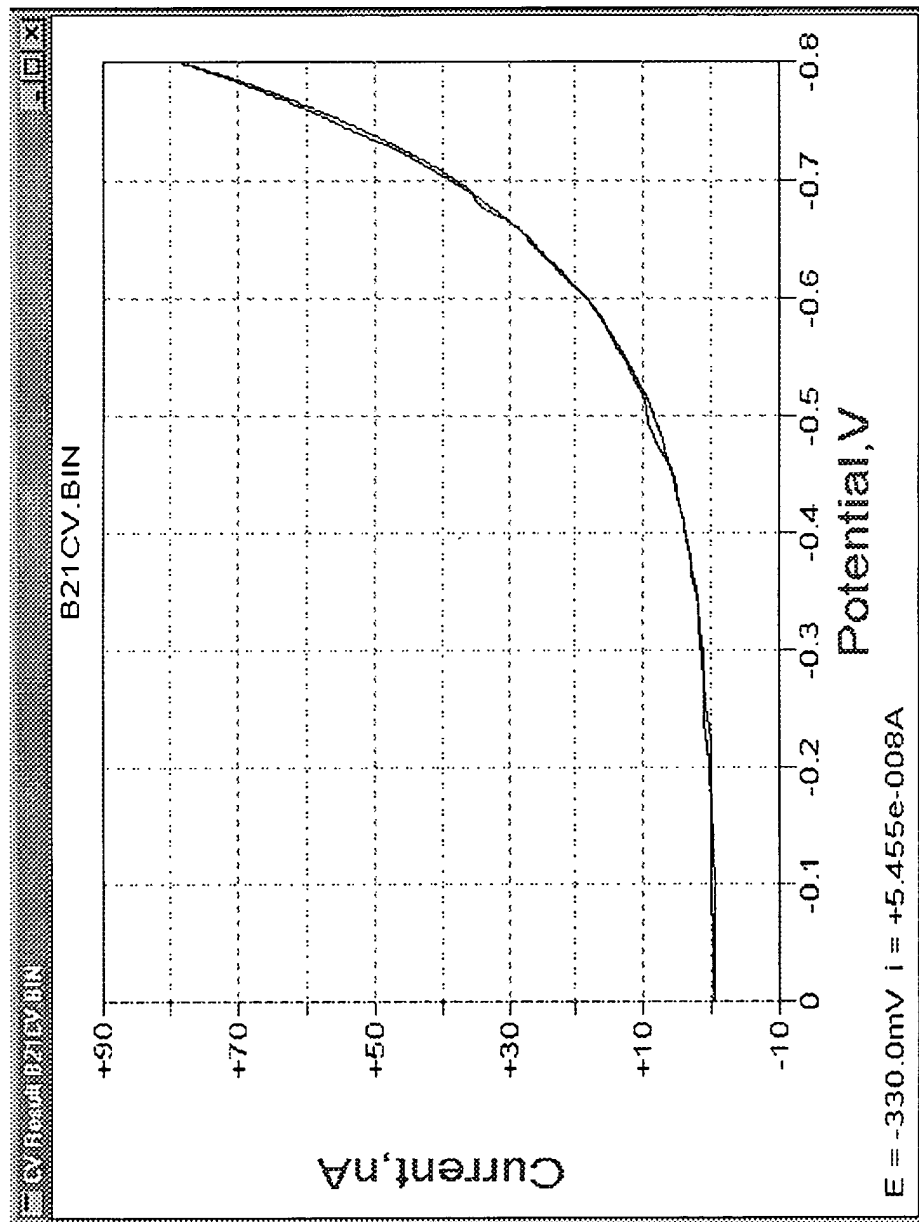


Figure 14

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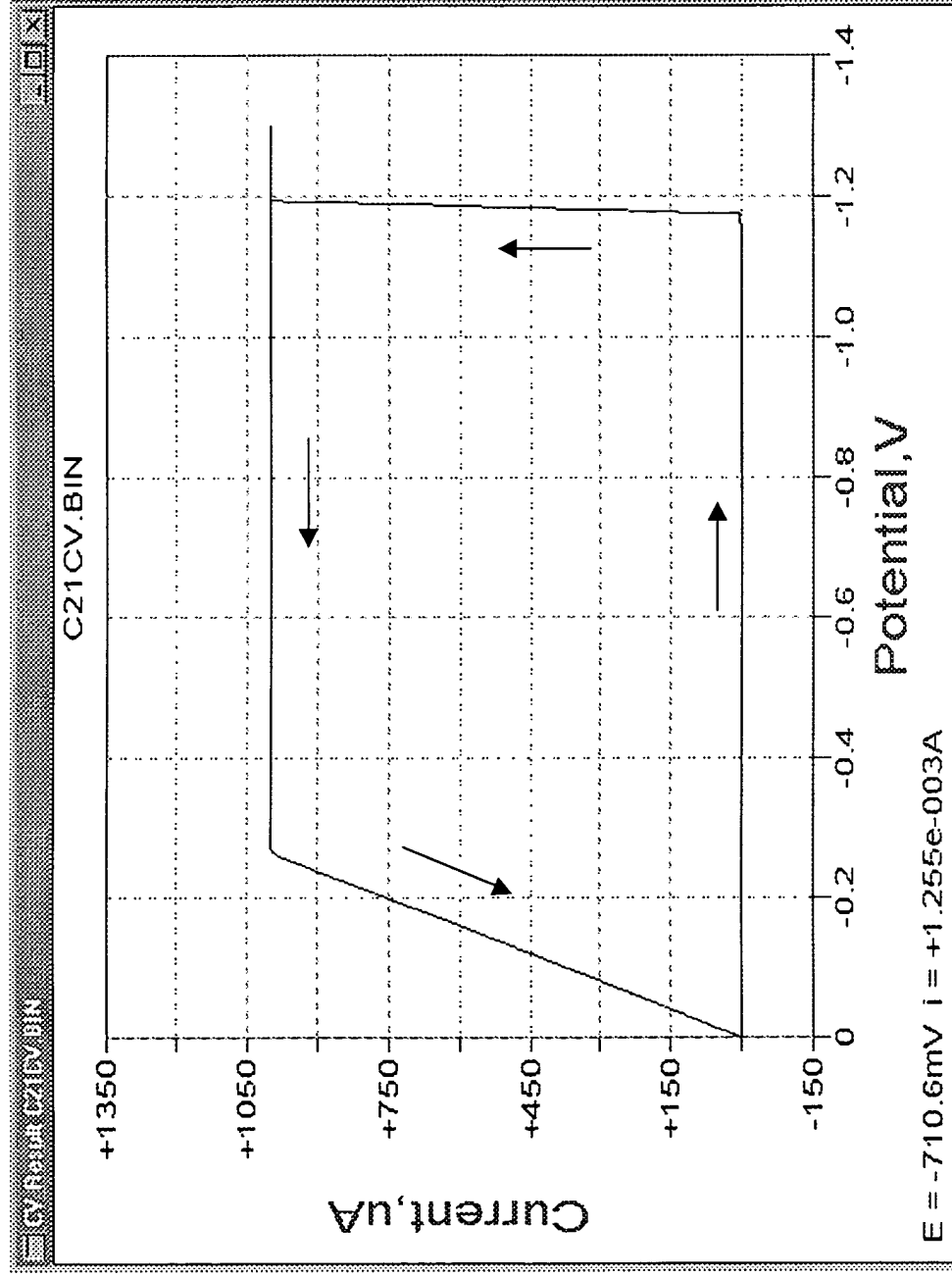


Figure 15

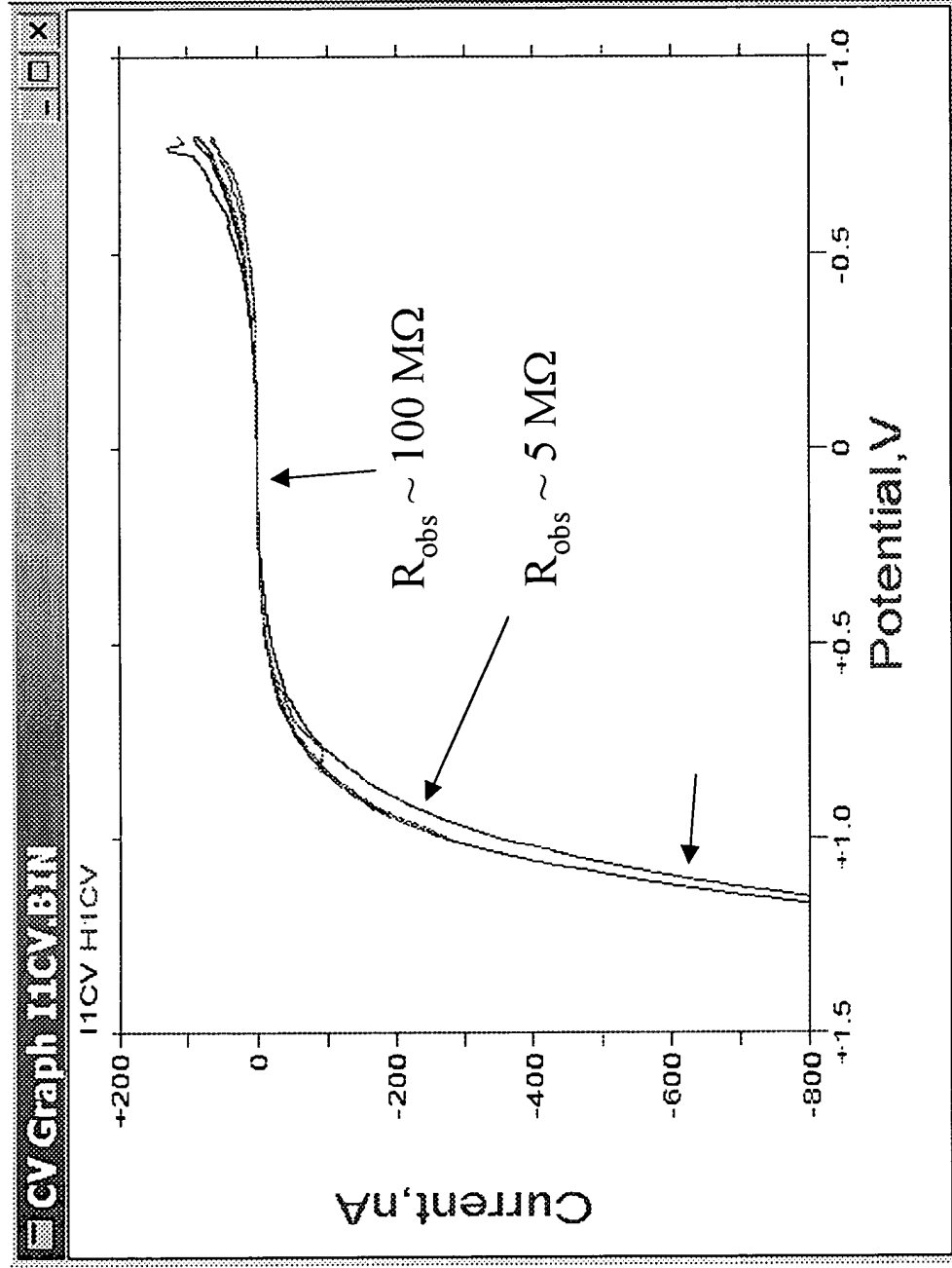


Figure 16

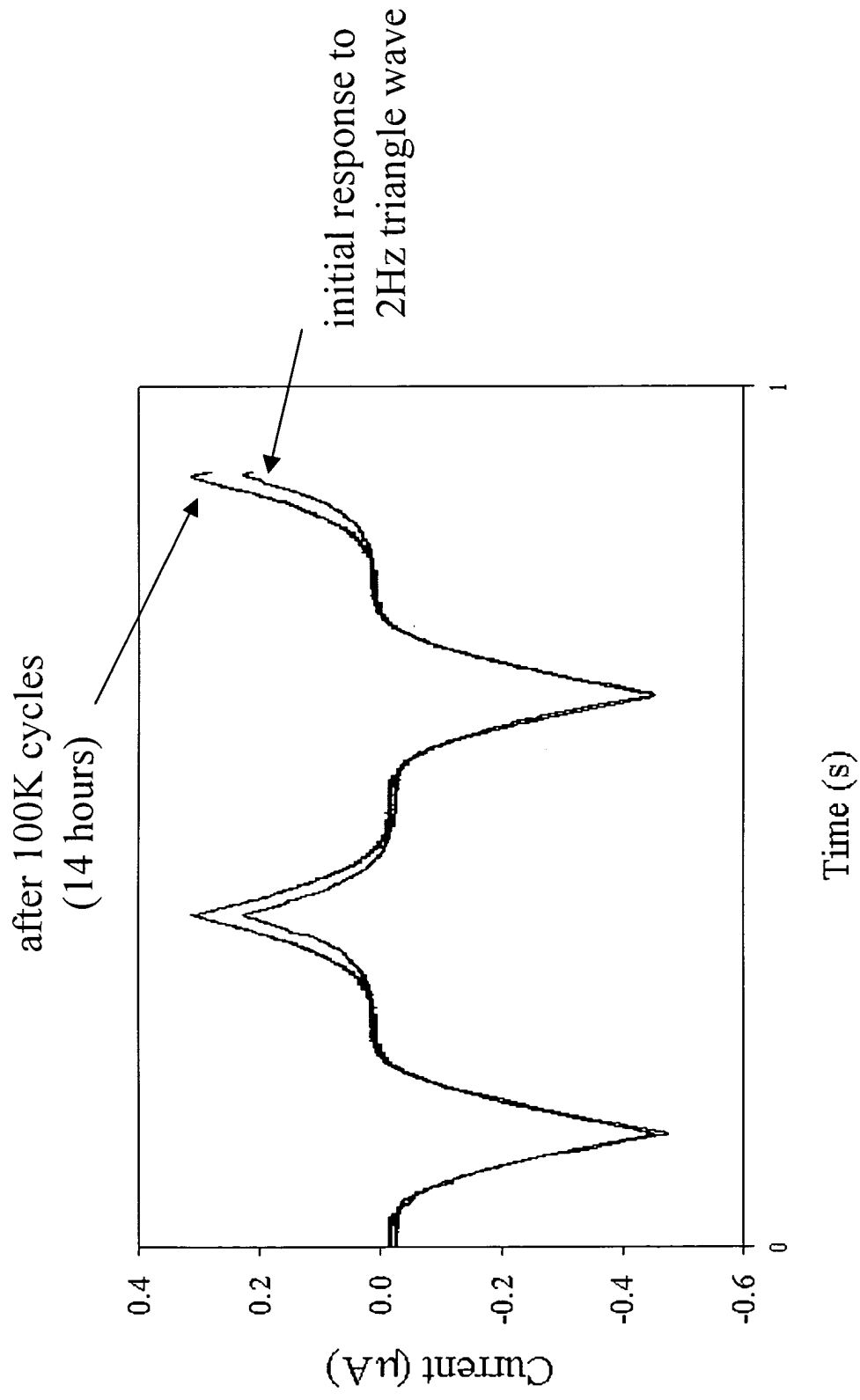


Figure 17

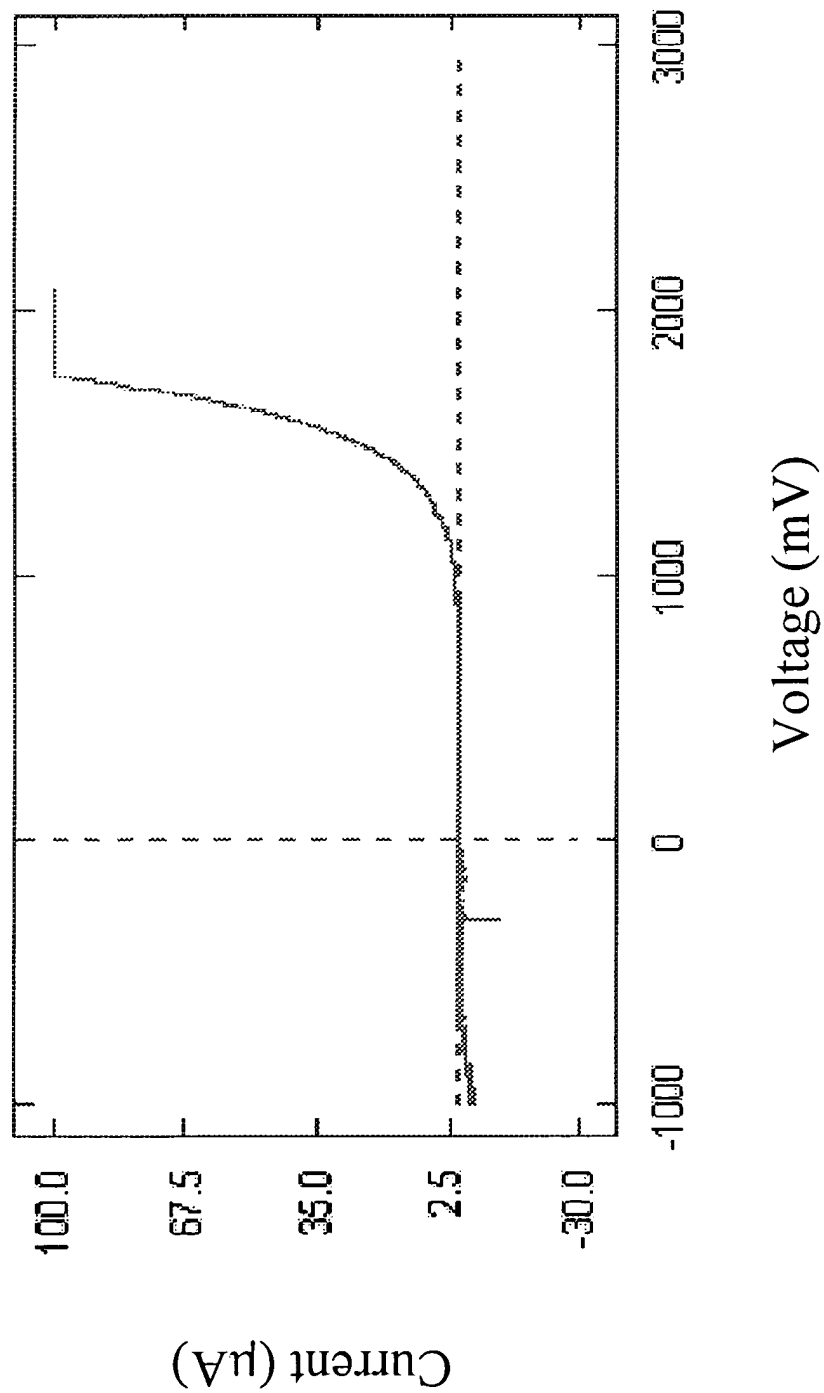


Figure 18

1 1 1 1



memory device based on molecular monolayer

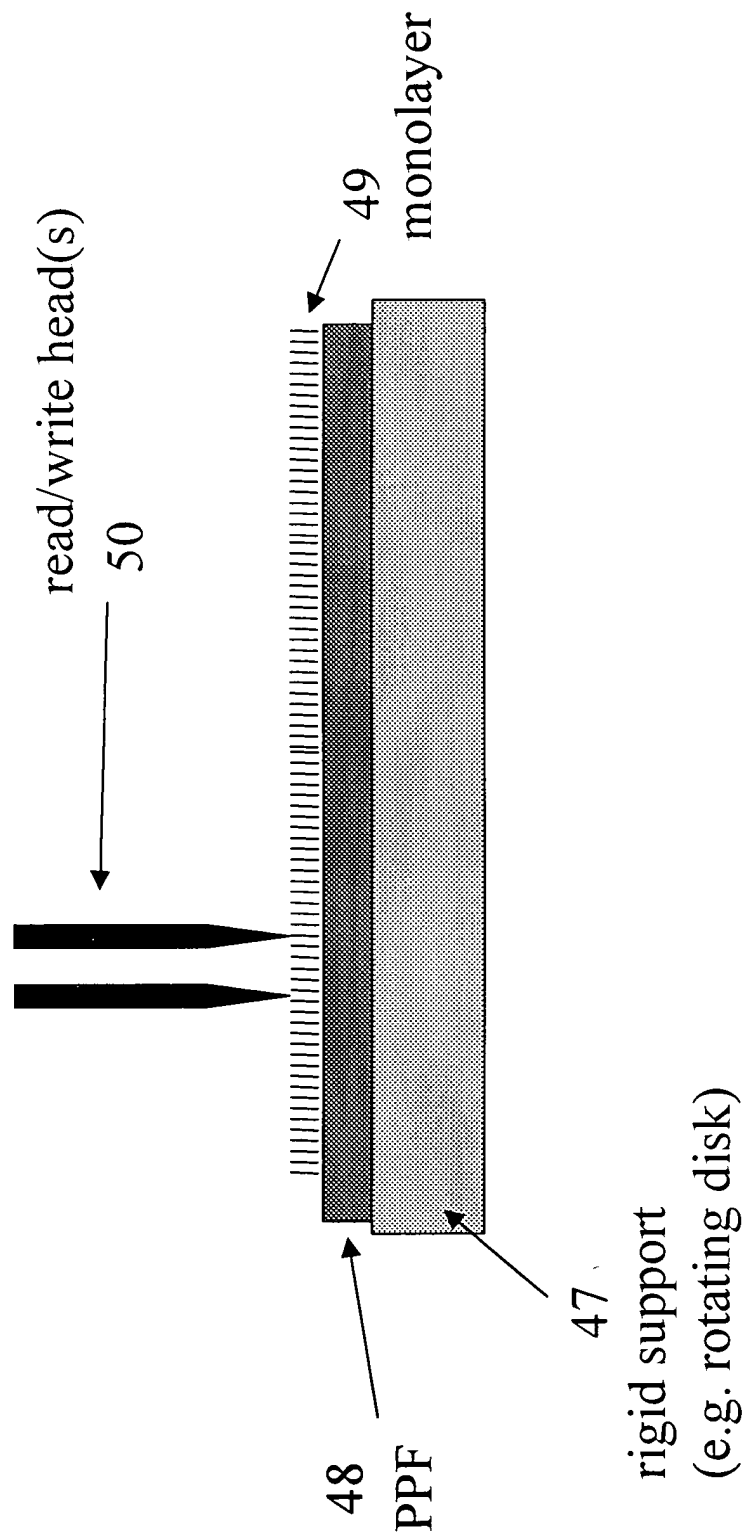


Figure 20

Flat panel display with monolayer field emitters:

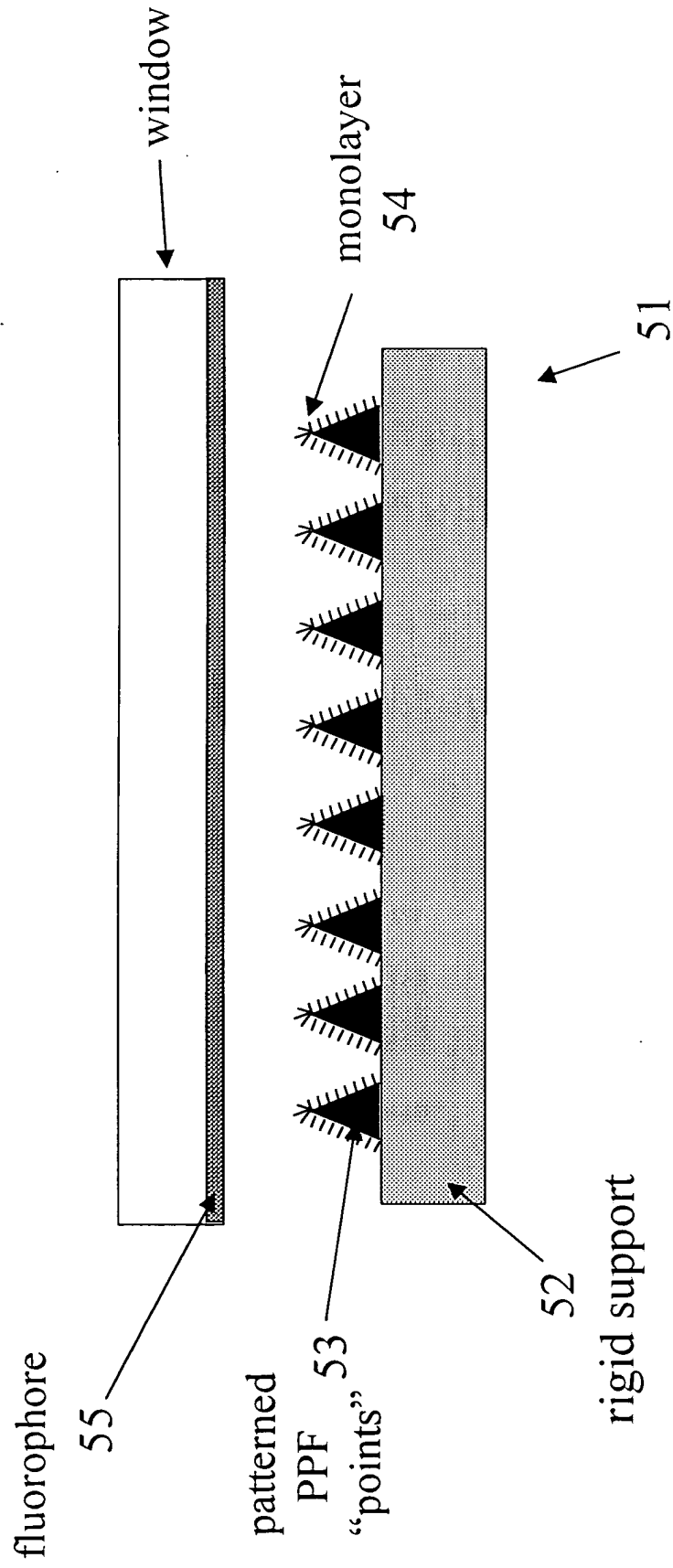


Figure 21